

Title (en)

PICKING ASSISTANCE SYSTEM AND PROGRAM

Title (de)

KOMMISSIONIERASSISTENZSYSTEM UND -PROGRAMM

Title (fr)

SYSTÈME ET PROGRAMME D'AIDE À LA COLLECTE

Publication

**EP 4173996 A4 20240117 (EN)**

Application

**EP 21829985 A 20210623**

Priority

- JP 2020109819 A 20200625
- JP 2021023815 W 20210623

Abstract (en)

[origin: EP4173996A1] A picking assistance system or the like that enables cost reduction via, e.g., reduction of passages and enables efficiently moving related items is provided. A picking assistance system for assisting in picking from one or more storage racks that store a necessary item, by moving the storage racks that store a necessary item from among a plurality of storage racks stored in a storage area to another location, wherein: in the storage area, the plurality of storage racks are disposed in longitudinal and lateral directions; the system includes a control device for moving the storage racks; and the control device performs control in such a manner that one or more vacant rows are formed in the longitudinal or lateral direction by movement of the storage racks, and further performs control in such a manner to, when a necessary storage rack is moved from a row adjacent to one of the vacant rows to the other location, make a storage rack that is currently necessary remain in the adjacent row by moving an unnecessary storage rack in the adjacent row to the vacant row, and move all of storage racks that are currently necessary, the storage racks remaining in the adjacent row, in one group to the other location is provided.

IPC 8 full level

**G06Q 10/08** (2023.01); **B65G 1/00** (2006.01); **B65G 1/137** (2006.01)

CPC (source: EP US)

**B65G 1/1373** (2013.01 - US); **B65G 1/1378** (2013.01 - EP); **G06Q 10/08** (2013.01 - EP)

Citation (search report)

[I] US 2019127146 A1 20190502 - YOSHIMOTO HIROYUKI [JP], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 4173996 A1 20230503**; **EP 4173996 A4 20240117**; CN 115768705 A 20230307; CN 115768705 B 20240416; JP 2022007096 A 20220113; JP 6786743 B1 20201118; US 12065312 B2 20240820; US 2023192405 A1 20230622; WO 2021261527 A1 20211230

DOCDB simple family (application)

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